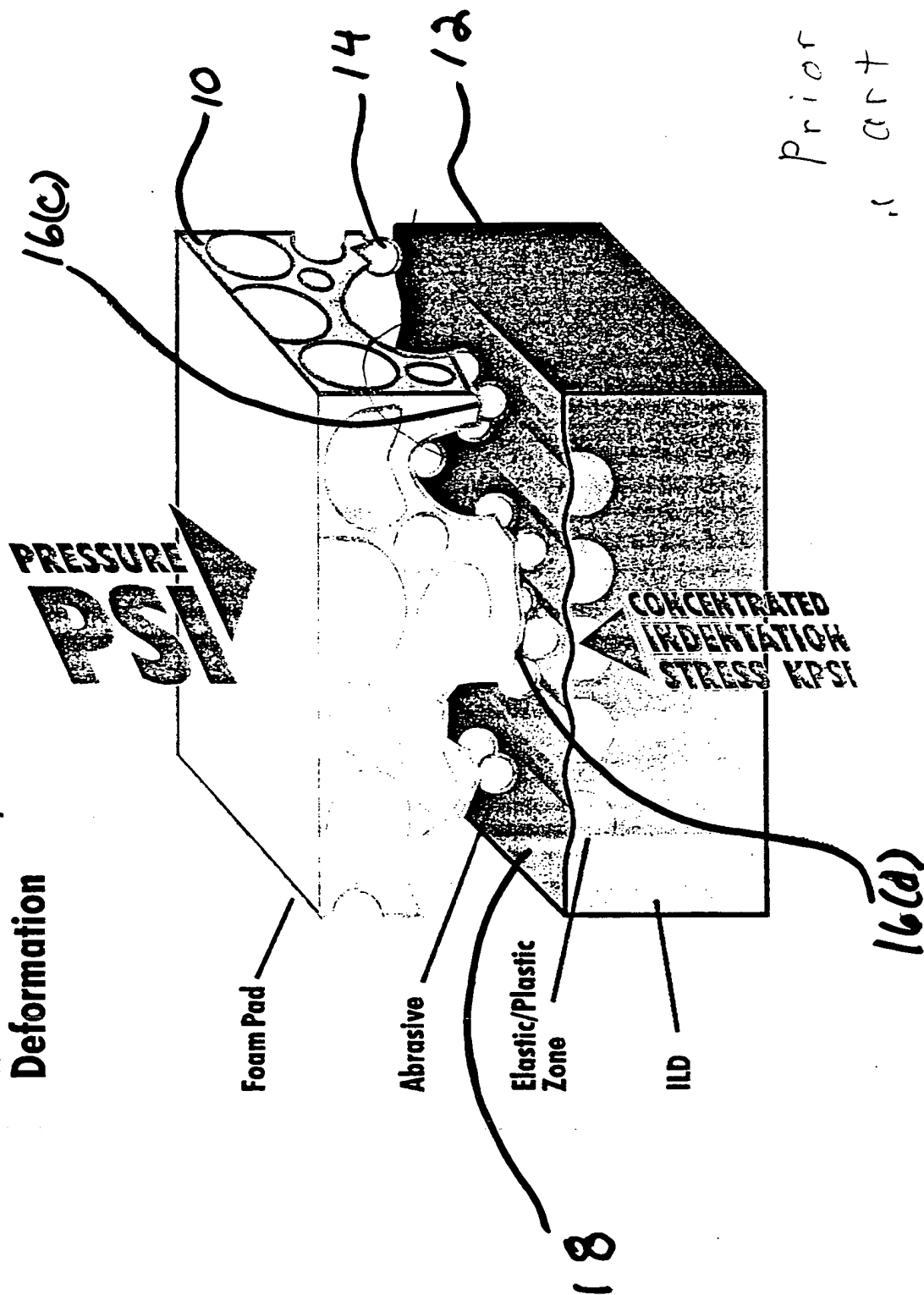


FIG 1

MECHANICAL COMPONENT

Stress Concentration and
Resultant Elastic/Plastic
Deformation



CHEMICAL COMPONENT

Double Layer of OH⁻ on Abrasive is the Contact Source for Silanol Bond Formation

FIG. 2

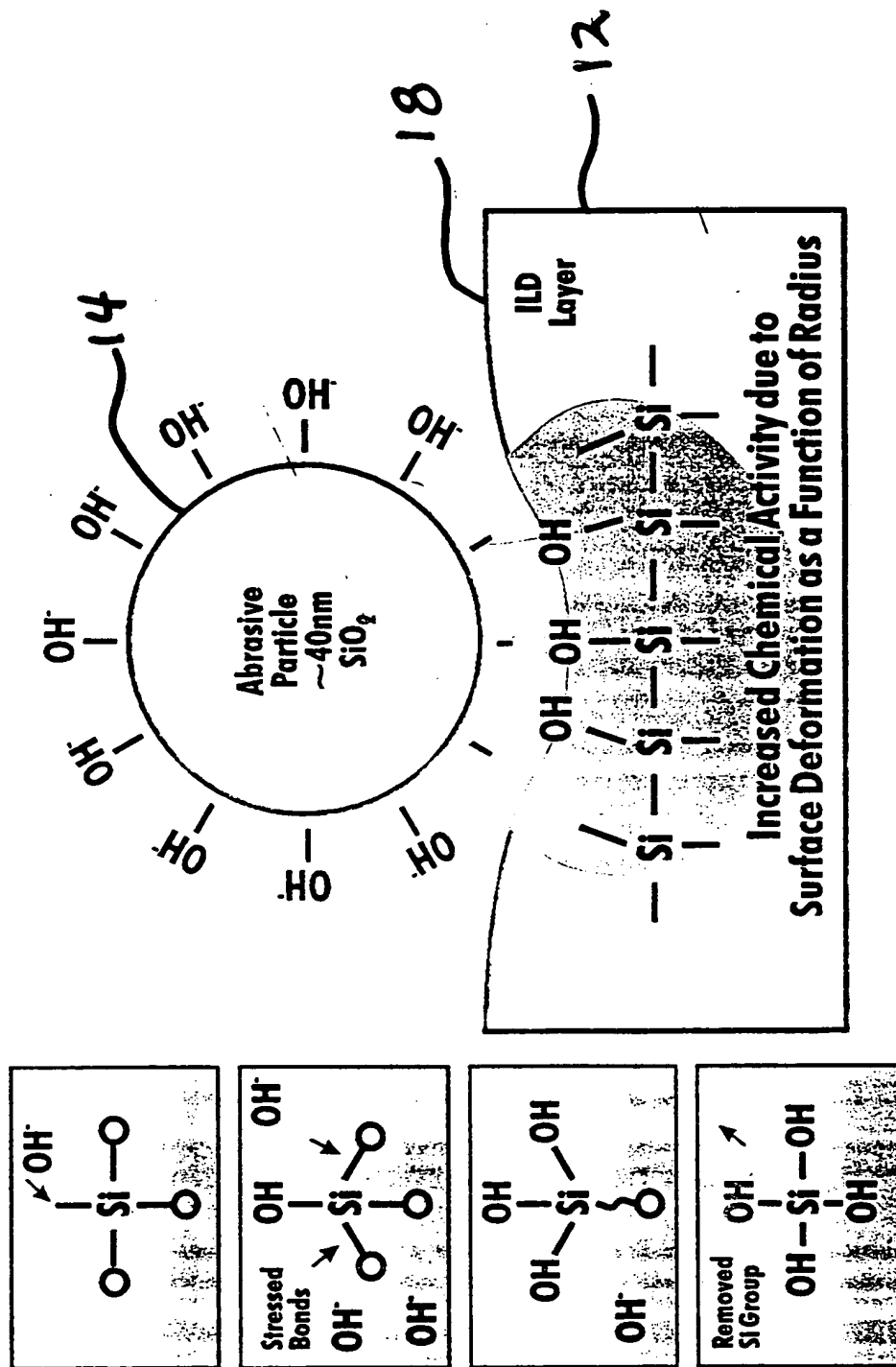
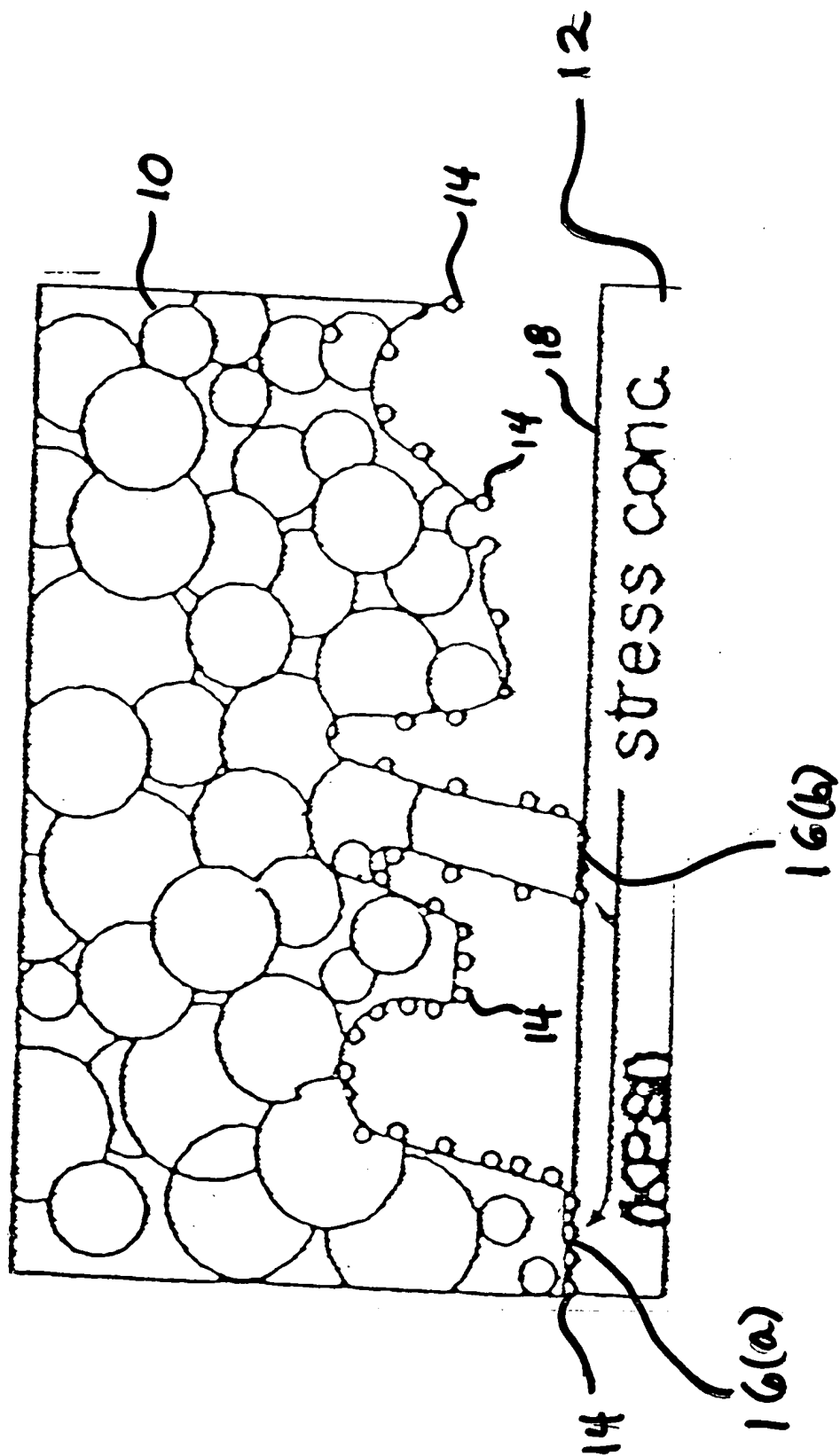


FIG 3



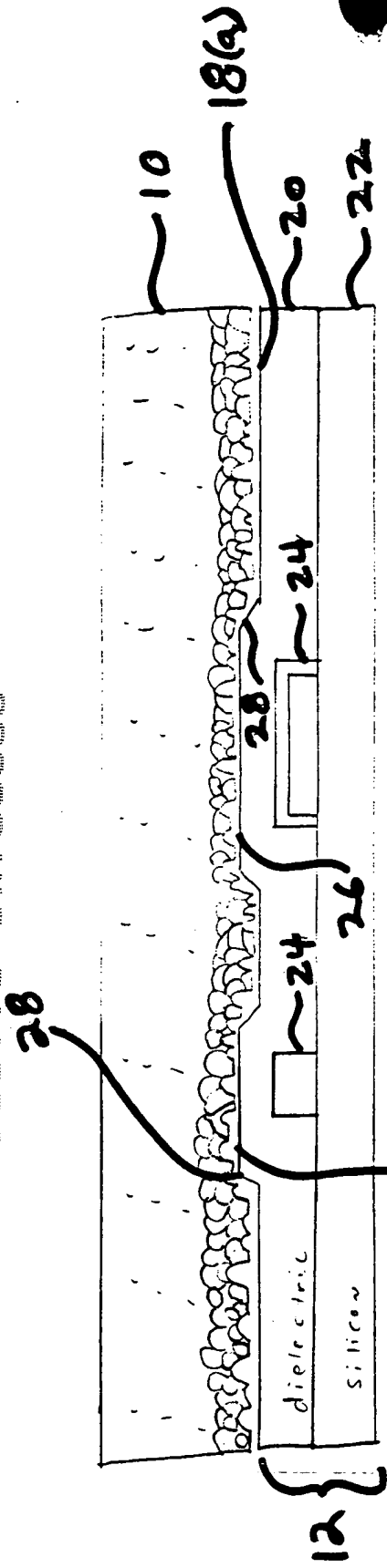


FIG 4A

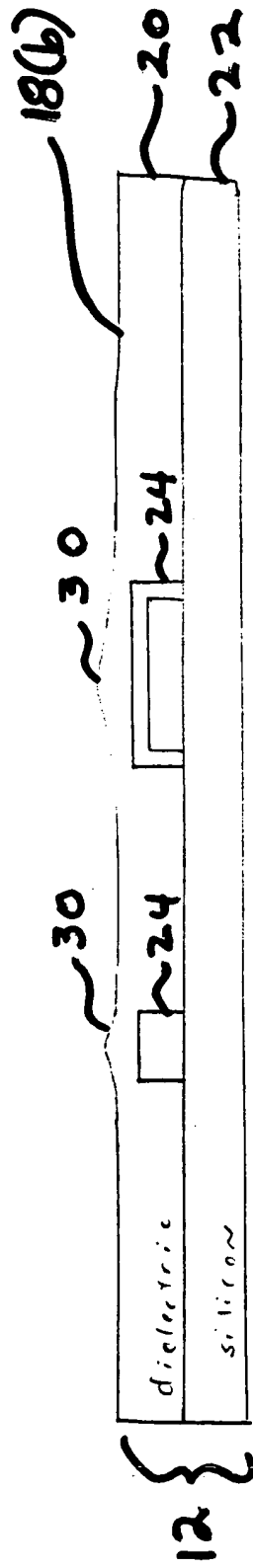


FIG 4B

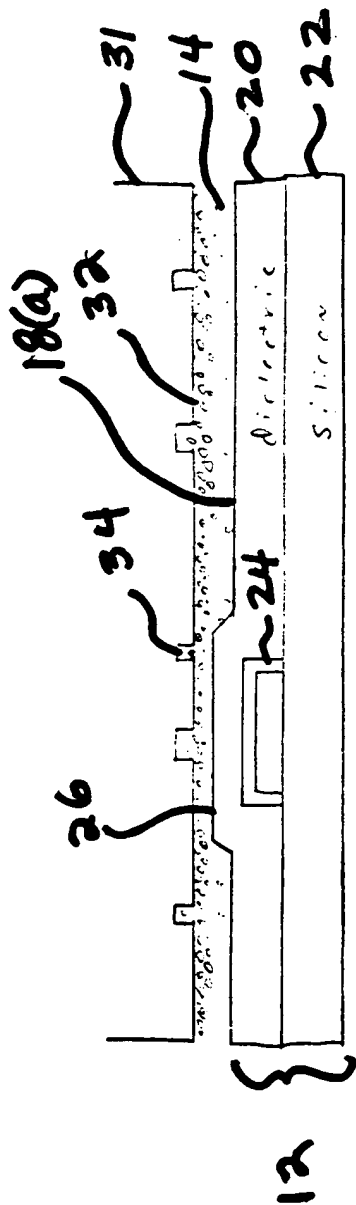


FIG 5A

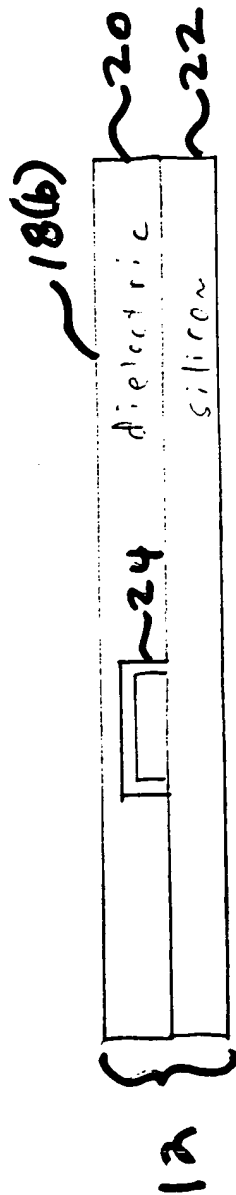


FIG 5B